

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

Claims 1-24 (cancelled).

24. (Currently Amended) A mobile fumigation system ~~positioned within at least one ISO general purpose shipping container, the container~~ comprising:
an ISO general purpose shipping container that includes a first gas-tight compartment including a fumigation chamber being adapted to contain ~~produce~~ cargo to be fumigated;

the shipping container further comprising a second compartment including a fumigation apparatus operatively coupled to the fumigation chamber, and
a partition wall separating the first compartment and the second compartment,
wherein the fumigation apparatus includes:

a fumigant inlet device operatively coupled to the fumigation chamber through the partition wall to allow a flow of a toxic fumigant into the fumigation chamber;

an extraction device operatively coupled to the fumigation chamber and arranged to remove a majority of the toxic fumigant from the fumigation chamber;
and

an absorption device operatively coupled to the extraction device, the absorption device being designed to absorb the toxic fumigant removed from the

fumigation chamber in order to prevent a release of the toxic fumigant into atmosphere.

25. (Currently Amended) A mobile fumigation system, comprising:
a fumigation chamber defined by at least one gas-tight ISO general purpose shipping container adapted to accommodate ~~produce~~ cargo to be fumigated, and
a fumigation apparatus located in a separate container,
wherein the fumigation apparatus is operatively coupled to the fumigation chamber of the at least one ISO gas-tight general purpose shipping container, the fumigation apparatus comprising:
a fumigant inlet device for flowing a toxic fumigant into the fumigation chamber;
an extraction device for removing a majority of the toxic fumigant from the fumigation chamber; and
an absorption device for absorbing the toxic fumigant removed from the fumigation chamber in order to prevent a release of the toxic fumigant into atmosphere.

Claims 26-27 (cancelled).

28. (Currently Amended) The fumigation system ~~as defined in~~ of claim [[24]] 25 wherein the absorption device comprises an absorption bed including activated carbon for absorbing at least part of the fumigant extracted from the fumigation chamber.

29. (Currently Amended) The fumigation system ~~as defined in~~ of claim [[24]] 25 further comprising ~~also including~~ a sliding bed or floor on which the produce resides, the bed or floor being configured to slide into and out of the fumigation chamber wherein loading and unloading of the ~~produce~~ cargo to be fumigated can be performed externally of the chamber.

30. (Currently Amended) The fumigation system ~~as defined in~~ of claim [[24]] 25 wherein the fumigation apparatus incorporates a source of the fumigant which is directly associated with a heating source, the latter used to convert the fumigant into a gaseous form.

31. (Currently Amended) The fumigation system ~~as defined in~~ of claim [[24]] 25 wherein the fumigant inlet device is adapted to detachably couple to a mobile source of the fumigant.

32. (Currently Amended) The fumigation system ~~as defined in~~ of claim [[24]] 25 wherein the ~~second compartment incorporates~~ fumigation apparatus includes a system control box, a gas-tight fumigant supply source and a plurality of fumigant delivery pipes and valves ~~adapted in use to supply~~ effective for supplying fumigant from [[the]] a supply source through ~~the~~ a partition wall to the fumigation chamber.

33. (Currently Amended) The fumigation system ~~as defined in~~ of claim 32 wherein the fumigant inlet device is coupled to a dispersion pipe system located in the fumigation chamber.

34. (Currently Amended) The fumigation system ~~as defined in~~ of claim ~~[[24]]~~ 25 wherein the fumigation chamber contains a plurality of floor and wall-mounted pipes independently connected via a system of taps and connectors to a fumigant sampling and detection meter unit located in the fumigation apparatus ~~second~~ compartment.

35. (Currently Amended) The fumigation system ~~as defined in~~ of claim 32 wherein the system control box contains a fumigant sampling and detection meter unit and power supply switches for mixing fans, exhaust fan, lights, gas heaters and valve actuators.

36. (Currently Amended) The fumigation system ~~as defined in~~ of claim 28, further comprising a device for washing at least part of the absorption bed with a chemical solution to remove and degrade the absorbed fumigant.

37. (Previously Presented) The fumigation system as defined in claim 36 wherein the solution comprises sodium thiosulphate for degrading methyl bromide.

Claims 38-39 (cancelled).

40. (Currently Amended) The mobile fumigation system ~~as defined in~~ of claim 25 wherein the fumigation chamber ~~is defined by~~ includes a pair of shipping containers positioned alongside one another, each container operatively coupled to the fumigation apparatus.

41. (Currently Amended) The mobile fumigation system ~~as defined in~~ of claim 40 wherein the fumigant inlet device is adapted to detachably couple to a mobile source of the fumigant.

42. (Currently Amended) The mobile fumigation system ~~as defined in~~ of claim ~~[[41]]~~ 40 wherein the fumigation apparatus incorporates a system control box, a fumigant supply source and a system of fumigant delivery pipes and valves adapted in use to supply fumigant from the supply source to the fumigation chamber.

43. (Currently Amended) The mobile fumigation system ~~as defined in~~ of claim 42 wherein the fumigant inlet device is operatively coupled to a dispersion pipe system located in the fumigation chamber.

44. (Currently Amended) The mobile fumigation system ~~as defined in~~ of claim 43 wherein the fumigation chamber contains a plurality of floor and wall-mounted pipes independently connected via a system of taps and connectors to a fumigant sampling and detection meter unit located in the separate container.

45. (Currently Amended) A mobile fumigation system ~~positioned within at least one ISO general purpose shipping container, the container comprising:~~

an ISO general purpose shipping container that includes a first compartment containing a fumigation chamber being adapted to contain ~~produce~~ cargo to be fumigated; and

the shipping container further comprising a second compartment containing a fumigation apparatus operatively coupled to the fumigation chamber, the fumigation apparatus including:

a fumigant inlet device for providing a flow of a toxic fumigant into the fumigation chamber;

an extraction device for removing a majority of the toxic fumigant from the fumigation chamber; and

an absorption device for absorbing the toxic fumigant removed from the fumigation chamber in order to prevent a release of the toxic fumigant into atmosphere.